

ABSTRACT

An object of the present invention is to provide an aluminum-based target having a large area which has internal defects such as blow holes reduced to a minimum and has no warp. The aluminum-based target consisting of a plurality of aluminum alloy target members has a joint in which the aluminum alloy target members are joined with a friction stir welding method. The joint contains precipitates of an intermetallic compound with diameters of 10 μm or smaller dispersed in an aluminum matrix, and blow holes with diameters of 500 μm or less in an amount of 0.01 to 0.1/cm².